


ECOLOGICAL MONOGRAPHS

OFFICIAL PUBLICATION OF THE
ECOLOGICAL SOCIETY OF AMERICA

Volume 7, 1937

Published Quarterly by
The Duke University Press
Durham, N. C., U.S.A.



ECOLOGICAL MONOGRAPHS

A QUARTERLY JOURNAL
FOR ALL PHASES OF BIOLOGY

Issued on the fifteenth of December, March, June, and September

EDITORS: BOTANY, C. F. KORSTIAN, Duke University, Durham, N. C.
ZOOLOGY, A. S. PEARSE, Duke University, Durham, N. C.

BUSINESS MANAGER: R. O. RIVERA, Duke University Press.

MEMBERS OF THE EDITORIAL BOARD

1935-37

W. C. ALLEE, University of Chicago, Chicago, Illinois.
E. N. TRANSEAU, Ohio State University, Columbus, Ohio.

1936-38

CHANCEY JUDAY, University of Wisconsin, Madison, Wisconsin.
H. C. HANSON, North Dakota Agricultural College, Fargo, North Dakota.

1937-39

GEORGE P. BURNS, University of Vermont, Burlington, Vermont.
C. H. KENNEDY, Ohio State University, Columbus, Ohio.

EX OFFICIO: A. E. EMERSON, University of Chicago.
GEORGE D. FULLER, University of Chicago.

The editorial board of this journal will consider ecological papers which are long enough to make twenty-five printed pages or more. Shorter ecological papers should be submitted to the editor of *Ecology*, which is also published by the Ecological Society of America. Both journals are open to ecological papers from all fields of biological science.

Manuscripts should be typewritten and may be sent to any member of the Editorial Board. Proof should be corrected immediately and returned to the Managing Editor at the address given above. Reprints should be ordered when proof is returned. Fifty copies, without covers, are supplied to authors free; covers and additional copies at cost. Correspondence concerning editorial matters should be sent to the Editors; that concerning subscriptions, change of address, and back numbers to the Business Manager.

Subscription price, \$6.00 per year. Parts of volumes can be supplied at the rates for single numbers, \$1.50 each. Missing numbers will be supplied free when lost in the mails if written notice is received by the Business Manager within one month of date of issue. All remittances should be made payable to the Duke University Press.

Agents in Great Britain: The Cambridge University Press, Fetter Lane, London, E. C. 4. Prices can be had on application.

Entered as Second-class Matter at the Postoffice at Durham, North Carolina.

COPYRIGHT, 1937, BY DUKE UNIVERSITY PRESS

Forestry
Faxion

TABLE OF CONTENTS

Volume 7, 1937

NUMBER 1, JANUARY

PAGE

- An Animal Census of Two Pastures and a Meadow in
Northern New York.....George N. Wolcott 1
- Factors Affecting Yearly Abundance of Passerine Birds
S. Charles Kendeigh and S. Prentiss Baldwin 91
- Perpetuation of Spruce on Cut-over and Burned Lands in the Higher
Southern Appalachian Mountains.....Clarence F. Korstian 125

NUMBER 2, APRIL

- An Ecological Study of Parasites of Some North Carolina Salamanders
John S. Rankin 169
- Some Aspects of the Role of Water in Insect Hibernation.....A. C. Hodson 271

NUMBER 3, JULY

- Seasonal Succession, Soil Relations, Numbers, and Regional Distribution of
Northeastern Texas Acridians.....F. B. Isely 317
- Ecological Studies on the Canadian River Flood Plain in Cleveland County,
Oklahoma.....Harold M. Hefley 345
- An Ecological Study of Cedar Glade Invertebrates near Nashville,
Tennessee.....Adelphia Meyer 403

NUMBER 4, OCTOBER

- Fate of Typical Lake Plankton in Streams.....David C. Chandler 445
- Ecology of Mixed Prairie in West Central Kansas.....F. W. Albertson 481